

From DNA to Protein Synthesis

PP's questions

What are the steps involved in making a protein?

Background Info

What is a protein? A chain of amino acids. Amino acids are the building blocks of proteins. They are joined together by peptide bonds. The sequence of amino acids in a protein determines its function. Proteins are involved in almost every process in the cell. They can act as enzymes, hormones, antibodies, and structural components. They can also act as transporters, receptors, and signaling molecules. Proteins are essential for life.

So, basically, you take a sequence of DNA, transcribe it into a sequence of RNA, and then translate it into a sequence of amino acids.

Starting Phrasing

How do we know?

PP's possible questions

1. **Background** How do we know that proteins are made from DNA?

This question is answered by the central dogma of molecular biology. It states that DNA is transcribed into RNA, which is then translated into protein. This process is supported by a large amount of experimental evidence. For example, the discovery of the structure of DNA by Watson and Crick in 1953 provided a model for how genetic information is stored and transmitted. The discovery of the structure of the ribosome by Noller and colleagues in 1994 provided a model for how proteins are synthesized.

2. **Background and Context** What are the steps involved in protein synthesis? What are the key players in this process?

There are two main steps involved in protein synthesis: transcription and translation. Transcription is the process of making an RNA copy of a DNA sequence. Translation is the process of making a protein from an RNA sequence. The key players in this process are DNA, RNA, and ribosomes. DNA is the template for transcription. RNA is the template for translation. Ribosomes are the sites where translation occurs.

3. **Background** How do we know that proteins are made from DNA? What are the key players in this process?

So, basically, you take a sequence of DNA, transcribe it into a sequence of RNA, and then translate it into a sequence of amino acids.

From Dna To Protein Synthesis Lab

Rosina Ehmman



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Acta Histochemica Et Cytochemica ,1997

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